"RESTORATION IMPROVEMENTS OF MAHALAKSHMI LAYOUT, BALAJI LAYOUT, BEST COUNTRY-II & III, BHASKAR REDDY, ANDHRA LAYOUT, TIRUMALANAGARA AND SURROUNDING AREAS IN WARD NO-03 OF YELHANKA NEW TOWN SUB DIVISION (PAKAGE NO-10)"

Quality Control Reports

QC ABSTRACT

NAME OF WORK: Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5		Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	KERB	Core Compressive strength	One Test		1	1
		Corrected Cylinder Compressive strength	One Test		1	1
		Equivalent Cube Compressive strength	One Test		1	1
7	Precast (100mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1

8	Precast (250mm)	Core Compressive Strength	One Test		1	1
		Corrected Cylinder Compressive Strength	One Test		1	1
		Equivalent Cube Compressive Strength	One Test		1	1
9	PCC(M15)	Compressive Strength(7days)	6 set /100-150 cum	129.95	12	12
10	RCC(M20)	Compressive Strength(7days)	43 set /1500-2000 cum	1975.92	86	86
11	GSB	SIEVE ANALYSIS	One Test		13	13
12	WMM	Sieve Analysis	One Test		35	35
		Impact Value	One Test		7	7
		Flakiness Index	One Test		14	14
		Elongation Index	One Test		14	14

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ಯಲಹಂಕ ಉಪವಿಭಾಗ ಬೆಂಗಳೂರು.
ಜ.ಮ.ಎಂ.ಪಿ ಬೆಂಗಳೂರು-106

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2022-03-07-07** **Date: 17-03-22**
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)
Agency	:	M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.
Customer's Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22
Date of Receipt	:	16-02-22
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-02-22
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig ..... Date ..... BANGALORE

FOR CIVIL Pro.

Dr. KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2022-03-07-07 **Date: 18-02-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 16-02-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 16-02-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	165	395	39.5	60.5	30-70	55-90	75-100	90-100
5	600 micron	187	582	58.2	41.8	15-34	35-59	60-79	80-100
6	300 micron	175	757	75.7	24.3	5-20	8-30	12-40	15-50
7	150 micron	155	912	91.2	8.8	0-10	0-10	0-10	0-15
8	Pan	88	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/03/2022

Lab ID : **CP-2022-03-07-07**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Bottom Raft - Attur Lake Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Attur Lake Road	M20	28/02/2022	07/03/2022	150.42 X 151.20 X 150.55	22744	8.413	423.5	18.6	18.8
2	Drain Bottom Raft - Attur Lake Road	M20	28/02/2022	07/03/2022	150.67 X 149.88 X 149.40	22582	8.718	427.6	18.9	
3	Drain Bottom Raft - Attur Lake Road	M20	28/02/2022	07/03/2022	151.29 X 150.41 X 151.13	22755	8.749	425.5	18.7	

* The results obtained are satisfactory as per standard requirements.

ಕರ್ನಾಟಕ ಸಾರ್ವಜನಿಕ ಪ್ರಾಯೋಗಿಕ ಪ್ರಯೋಗಾಲಯ ಮತ್ತು ಸಂಶೋಧನಾ ಘಟಕ
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FOR CIVIL Pro.

KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-07-07** **Date: 03/03/2022**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 26-02-22

Customer ID : Drain Bottom Raft - Attur Layout, 4th Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 03/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Attur Layout, 4th Cross Road	M20	24/02/2022	03/03/2022	150.81 X 151.37 X 151.95	22828	8.655	416.9	18.3	18.4
2	Drain Bottom Raft - Attur Layout, 4th Cross Road	M20	24/02/2022	03/03/2022	150.52 X 151.02 X 149.23	22731	8.818	415.3	18.3	
3	Drain Bottom Raft - Attur Layout, 4th Cross Road	M20	24/02/2022	03/03/2022	149.02 X 150.64 X 151.02	22448	8.218	417.7	18.6	

* The results obtained are satisfactory as per standard requirements.

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CIVIL Pro Sig ..... Date ..... BANGALORE

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-07-07** **Date: 04/03/2022**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2022

SL No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road	M20	25/02/2022	04/03/2022	150.93 X 149.83 X 150.80	22614	9.036	413.1	18.3	18.3
2	Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road	M20	25/02/2022	04/03/2022	151.40 X 150.35 X 151.43	22764	8.682	413.1	18.1	
3	Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road	M20	25/02/2022	04/03/2022	149.31 X 150.46 X 149.36	22465	8.300	415.2	18.5	

• The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2022-03-07-07** **Date: 04/03/2022**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 28-02-22

Customer ID : Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 04/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road	M20	25/02/2022	04/03/2022	149.36 X 151.61 X 149.75	22646	8.441	415.9	18.4	18.2
2	Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road	M20	25/02/2022	04/03/2022	151.93 X 150.86 X 149.20	22920	8.571	418.5	18.3	
3	Drain Bottom Raft - Mahalakshmi Layout, 3rd Main Road	M20	25/02/2022	04/03/2022	151.07 X 149.47 X 149.03	22580	8.356	407.6	18.1	

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-07 **Date: 07/03/2022**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 02-03-22

Customer ID : Drain Side Wall -Yelahanka 4th Phase, 6th Main Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 06/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall - Yelahanka 4th Phase, 6th Main Road	M20	27/02/2022	06/03/2022	151.33 X 150.00 X 149.21	22700	8.594	410.0	18.1	18.3
2	Drain Side Wall - Yelahanka 4th Phase, 6th Main Road	M20	27/02/2022	06/03/2022	150.97 X 151.15 X 151.40	22819	8.118	420.4	18.4	
3	Drain Side Wall - Yelahanka 4th Phase, 6th Main Road	M20	27/02/2022	06/03/2022	151.74 X 151.23 X 149.98	22949	8.442	424.6	18.5	

• The results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2022-03-07-07 **Date: 19/03/2022**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer's Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 14-03-22

Customer ID : Kerb PCC - Duo Marvel Layout, 3rd A Cross Road

Sample Type /Size : 150X150X150 mm

Sample grade/Age : 1:2:4(M15) / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 19/03/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Kerb PCC - Duo Marvel Layout, 3rd A Cross Road	1:2:4(M15)	12/03/2022	19/03/2022	149.27 X 151.41 X 149.97	22601	8.301	267.2	11.8	12.4
2	Kerb PCC - Duo Marvel Layout, 3rd A Cross Road	1:2:4(M15)	12/03/2022	19/03/2022	149.33 X 149.80 X 149.05	22369	8.799	277.5	12.4	
3	Kerb PCC - Duo Marvel Layout, 3rd A Cross Road	1:2:4(M15)	12/03/2022	19/03/2022	150.29 X 149.05 X 151.81	22401	8.200	287.5	12.8	

• The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID : CP-RW-2022-03-07-07 **Date: 12-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 10-03-22

Type of Mix : GSB (Granular Sub Base)

Date of test : 10-03-22

Oven Dry Weight : 10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	958	958	9.6	90.4	80-100
26.5	1874	2832	28.3	71.7	55-90
9.5	1347	4179	41.8	58.2	35-65
4.75	2377	6556	65.6	34.4	25-50
2.36	1998	8554	85.5	14.5	10-20
0.85	1059	9613	96.1	3.9	2-10
0.425	278	9891	98.9	1.1	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.54%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

• The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Page 1/1
End of Report

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2022-03-07-07	**Date: 15-03-22**
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)	
Agency	:	M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22	
Date of Receipt	:	11-03-22	
Type of Mix	:	GSB (Granular Sub Base)	
Date of test	:	11-03-22	
Oven Dry Weight	:	10000 Grams	

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	942	942	9.4	90.6	80-100
26.5	1765	2707	27.1	72.9	55-90
9.5	1198	3905	39.1	61.0	35-65
4.75	1358	5263	52.6	47.4	25-50
2.36	2865	8128	81.3	18.7	10-20
0.85	1136	9264	92.6	7.4	2-10
0.425	384	9648	96.5	3.5	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	22.91%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2022-03-07-07** **Date: 12-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 10-03-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 10-03-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	11.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.7%	
Combined Flakiness and Elongation Index for WMM	24.2%	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
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ಜ.ಪಾ.ಯೋ, ಬೆಂಗಳೂರು-106

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-RW-2022-03-07-07 **Date: 14-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 11-03-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 11-03-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.5	302.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.5	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	228.5	228.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.5	0.4
5	Aggregate impact value	(B/A)*100	24.3	24.5
6	Aggregate impact value (Mean of two tests)	Pecentage	24.4	

• The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2022-03-07-07 **Date: 14-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 12-03-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 12-03-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.5%	
Combined Flakiness and Elongation Index for WMM	21.3%	

• The results obtained are satisfactory as per standard requirements.

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| ENVIRONMENTAL WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-03-07-07**	**Date: 14-03-22**
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)	
Agency	:	M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22	
Date of Receipt	:	12-03-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	12-03-22	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.6%	
Combined Flakiness and Elongation Index for WMM	22.4%	

• The results obtained are satisfactory as per standard requirements.

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WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : **CP-RW-2022-03-07-07** **Date: 16-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 14-03-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 14-03-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.8%	
Combined Flakiness and Elongation Index for WMM	23.9%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-03-07-07 **Date: 16-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 14-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 14-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	337	337	3.1	96.9	95-100
22.4	2256	2593	23.6	76.4	60-80
11.2	2184	4777	43.4	56.6	40-60
4.75	2268	7045	64.0	36.0	25-40
2.36	1545	8590	78.1	21.9	15-30
0.6	668	9258	84.2	15.8	8-22
0.075	1605	10863	98.8	1.2	0-5

• The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-03-07-07 **Date: 18-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 16-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 16-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	262	262	2.4	97.6	95-100
22.4	2931	3193	29.0	71.0	60-80
11.2	3015	6208	56.4	43.6	40-60
4.75	2035	8243	74.9	25.1	25-40
2.36	867	9110	82.8	17.2	15-30
0.6	942	10052	91.4	8.6	8-22
0.075	721	10773	97.9	2.1	0-5

• The results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-03-07-07 **Date: 18-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 16-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 16-03-22

Oven Dry Weight : 12000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	330	330	2.8	97.3	95-100
22.4	2556	2886	24.1	76.0	60-80
11.2	2184	5070	42.3	57.8	40-60
4.75	2268	7338	61.2	38.9	25-40
2.36	1645	8983	74.9	25.1	15-30
0.6	668	9651	80.4	19.6	8-22
0.075	2105	11756	98.0	2.0	0-5

• The results obtained are satisfactory as per standard requirements.

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Page 1/1
End of Report

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-03-07-07 **Date: 11-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 09-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 09-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	286	286	2.6	97.4	95-100
22.4	2245	2531	23.0	77.0	60-80
11.2	2145	4676	42.5	57.5	40-60
4.75	2044	6720	61.1	38.9	25-40
2.36	1247	7967	72.4	27.6	15-30
0.6	1947	9914	90.1	9.9	8-22
0.075	778	10692	97.2	2.8	0-5

• The results obtained are satisfactory as per standard requirements.

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Page 1/1
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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-03-07-07 **Date: 11-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 09-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 09-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	311	311	2.8	97.2	95-100
22.4	2259	2570	23.4	76.6	60-80
11.2	2179	4749	43.2	56.8	40-60
4.75	2251	7000	63.6	36.4	25-40
2.36	1621	8621	78.4	21.6	15-30
0.6	623	9244	84.0	16.0	8-22
0.075	1338	10582	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-03-07-07** **Date: 10-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No.1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 08-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 08-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	320	320	2.9	97.1	95-100
22.4	2265	2585	23.5	76.5	60-80
11.2	2185	4770	43.4	56.6	40-60
4.75	2255	7025	63.9	36.1	25-40
2.36	1627	8652	78.7	21.3	15-30
0.6	628	9280	84.4	15.6	8-22
0.075	1338	10618	96.5	3.5	0-5

• The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : **CP-RW-2022-03-07-07** **Date: 14-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 11-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 11-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	345	345	3.1	96.9	95-100
22.4	2329	2674	24.3	75.7	60-80
11.2	2379	5053	45.9	54.1	40-60
4.75	2373	7426	67.5	32.5	25-40
2.36	1621	9047	82.2	17.8	15-30
0.6	623	9670	87.9	12.1	8-22
0.075	1208	10878	98.9	1.1	0-5

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

Page 1/1
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4, 7TH MAIN MALLESWARAM, BANGALORE -3
Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2022-03-07-07 **Date: 07-03-22**

Project Name : Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)

Agency : M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.

Customer Reference : BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22

Date of Receipt : 05-03-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 05-03-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	202	202	1.8	98.2	95-100
22.4	2289	2491	22.6	77.4	60-80
11.2	2301	4792	43.6	56.4	40-60
4.75	2658	7450	67.7	32.3	25-40
2.36	1499	8949	81.4	18.6	15-30
0.6	1047	9996	90.9	9.1	8-22
0.075	758	10754	97.8	2.2	0-5

• The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ
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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Page 1/1
End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-03-07-07**	**Date: 14-03-22**
Project Name	:	Restoration and Improvements of Mahalakshmi layout, Balaji layout, Best County-II & III, Bhaskar Reddy, Andhra layout, Thirumalanagara and surrounding areas in ward no-03 of Yelahanka New town Sub Division (PACKAGE NO-10)	
Agency	:	M/s SMLP Asphalts (Pro B.B Umesh), No:1265, Ground Floor, HIG B Sector, Yelahanka New Town, Bangalore-560064.	
Customer Reference	:	BBMP/EE/YNK.D/EPMT-08/W.O/107/2021-22	
Date of Receipt	:	11-03-22	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	11-03-22	

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	13.5%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	10.7%	
Combined Flakiness and Elongation Index for WMM	24.2%	

* The results obtained are satisfactory as per standard requirements.

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-106

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